International application No.

	<del></del>		CT/JP2004/012/39
A. CLASSIFIC Int.Cl <sup>7</sup>	CATION OF SUBJECT MATTER C22C1/04		
According to Inte	ernational Patent Classification (IPC) or to both nation	onal classification and IPC	
B. FIELDS SEA			
Minimum docum Int.Cl <sup>7</sup>	entation searched (classification system followed by C22C1/04, B22F1/00-8/00	classification symbols)	
Jitsuyo Kokai Ji		Toroku Jitsuyo Shinan Jitsuyo Shinan Toroku	Koho 1994-2004 Koho 1996-2004
	the international scalet (name of	i data base and, where practicable	e, search terms used)
C. DOCUMENT	TS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where	• •	ges Relevant to claim No.
Y	JP 47-031310 A (Akebono Bra Ltd.), 11 November, 1972 (11.11.72) Claims; Fig. 1 (Family: none)		1-12,35,36, 42,46,47
Y	JP 10-280082 A (Sumitomo Ele Ltd.), 20 October, 1998 (20.10.98), Claims (Family: none)	ectric Industries,	1-12,35,36, 42,46,47
Y	JP 05-331504 A (Toyota Motor 14 December, 1993 (14.12.93) Claims; Par. No. [0016] (Family: none)	c Corp.),	1-12,35,36, 42,46,47
× Further docu	ments are listed in the continuation of Box C.	See patent family annex.	
Special categories of cited documents:  A" document defining the general state of the art which is not considered to be of particular relevance  E" earlier application or patent but published on or after the international filing date.  C" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art  "&" document member of the same patent family	
ate of the actual co 22 Novemb	ompletion of the international search Der, 2004 (22.11.04)	Date of mailing of the internation 07 December, 2	onal search report 004 (07.12.04)
lame and mailing address of the ISA/ Japanese Patent Office		Authorized officer	
acsimile No. m PCT/ISA/210 (s	second sheet) (January 2004)	Telephone No.	

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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No 1-12,35,36, 42,46,47
Y	JP 2002-003962 A (Aisan Industry Co., Ltd.), 09 January, 2002 (09.01.02), Claims (Family: none)	
i		

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Box No. II Observations where certain claims were found unscarchable (Continuation of item 2 of first sheet)		
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:  Claims Nos.:  because they relate to subject matter not required to be searched by this Authority, namely:		
2. Claims Nos.:  because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:		
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).		
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)		
This International Searching Authority found multiple inventions in this international application, as follows:  Claims 1, 6, 35, 42, 46 and the claims defined by directly or indirectly referring to claim 1, 6, 35, 42 or 46, claim 13 and the claims defined by directly or indirectly referring to claim 13, claim 17 and the claims defined by directly or indirectly referring to claim 17, claim 21 and the claims defined by directly or indirectly referring to claim 21, claim 22 and the claims defined by directly or indirectly referring to claim 22, claim 23 and the claims defined by directly or indirectly referring to claim 23, claim 29 and the claims defined by directly or indirectly referring to claim 29, claims 30, 41 and 44 and the claims defined by directly or indirectly referring to claim 30, 41 or (continued to extra sheet)  1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.  2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.  3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:		
I.   No required additional search fees were timely paid by the applicant. Consequently, this international search report is		
restricted to the invention first mentioned in the claims; it is covered by claims Nos.:		
Claims 1 to 12, 35, 36, 42, 46 and 47		
The additional search fees were accompanied by the applicant's protest.		
No protest accompanied the payment of additional search fees.		

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Continuation of Box No.III of continuation of first sheet(2)

44, and claims 37, 43 and 48 and the claims defined by directly or indirectly referring to claim 37, 43 or 48 do not comply with the requirement of unity of invention with one another.

Claims 30, 31, 41, 44, 45, 55 and 56 do not comply with the requirement of unity of invention with one another.

Form PCT/ISA/210 (extra sheet) (January 2004)